

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/602,291	06/24/2003	Elizabeth A. Dauch	NEC0252US	1241	
33031 7	1590 12/16/2004		EXAM	EXAMINER	
	STEPHENSON ASC	GURLEY, LYNNE ANN			
4807 SPICEW BLDG. 4, SUI	OOD SPRINGS RD. TE 201		ART UNIT	PAPER NUMBER	
AUSTIN, TX 78759			2812		

DATE MAILED: 12/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

·						
., *	Application No.	Applicant(s)				
Advisory Action	10/602,291 DAUCH ET AL.					
	Examiner	Art Unit	1			
	Lynne A. Gurley	2812	pr			
The MAILING DATE of this communication appe	ars on the cover sheet with the o	correspondence addi	'ess			
THE REPLY FILED 26 November 2004 FAILS TO PLACE Therefore, further action by the applicant is required to a final rejection under 37 CFR 1.113 may only be either: (1 condition for allowance; (2) a timely filed Notice of Appearmentation (RCE) in compliance with 37 CFR 1.114.	void abandonment of this applice timely filed amendment whi	cation. A proper rep ch places the applic	oly to a cation in			
PERIOD FOR RE	PLY [check either a) or b)]					
a) The period for reply expiresmonths from the mailing of the period for reply expires on: (1) the mailing date of this Adverse, will the statutory period for reply expire later the ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The dathave been filed is the date for purposes of determining the period of extens 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened (b) above, if checked. Any reply received by the Office later than three more earned patent term adjustment. See 37 CFR 1.704(b).	isory Action, or (2) the date set forth in th an SIX MONTHS from the mailing date o FILED WITHIN TWO MONTHS OF TH te on which the petition under 37 CFR 1.1 sion and the corresponding amount of the I statutory period for reply originally set in	f the final rejection. E FINAL REJECTION. S I 36(a) and the appropriate fee. The appropriate extention; or (e extension fee ension fee under (2) as set forth in			
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CF						
2. The proposed amendment(s) will not be entered be	ecause:					
(a) they raise new issues that would require further	er consideration and/or search ((see NOTE below);				
(b) they raise the issue of new matter (see Note b	pelow);					
(c) they are not deemed to place the application issues for appeal; and/or	in better form for appeal by mat	erially reducing or s	implifying the			
(d) they present additional claims without cancel NOTE:	ing a corresponding number of	finally rejected clain	ns.			
3. Applicant's reply has overcome the following reject	etion(s):					
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a s	separate, timely filed	I amendment			
5.☑ The a)☐ affidavit, b)☐ exhibit, or c)☑ request fo application in condition for allowance because: See		sidered but does NC	T place the			
6. The affidavit or exhibit will NOT be considered becaused by the Examiner in the final rejection.	cause it is not directed SOLELY	to issues which we	re newly			
For purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.						
The status of the claim(s) is (or will be) as follows:						
Claim(s) allowed:						
Claim(s) objected to:	···					
Claim(s) rejected: <u>1-9</u> .	Claim(s) rejected: 1-9.					
Claim(s) withdrawn from consideration:	Claim(s) withdrawn from consideration:					
8. The drawing correction filed on is a) app	roved or b) disapproved by	the Examiner.				
9. Note the attached Information Disclosure Stateme	nt(s)(PTO-1449) Paper No(s).	·				
10. Other:						

Lynne A. Gurley Primary Patent Examiner TC 2800, Art Unit: 2812 Continuation of 5. does NOT place the application in condition for allowance because: the Examiner takes the position that the combination of Mautz et al., in view of Tsai et al., satisfies the limitations of claims 1-9. Specifically, in response to Applicant's remarks, pages 4-5 of the after-final amendment, filed 11/26/04, it is not what Mautz alone teaches, but what is suggested by the combination of both Mautz and Tsai that the examiner relies upon. Mautz shows the general structure and steps, while Tsai teaches the conventional step of removing a residual polymer, after patterning an interconnect on a tungsten plug, the polymer removal being necessary because of the previous removal of the photoresist when patterning the interconnect. Tsai teaches that the residual polymer is conventionally formed in the tungsten plug/interconnect method and Tsai also teaches the remedy for the excess polymer, which is to wet strip it using a solvent. Therefore, Tsai is relied upon to supplement Mautz by teaching the conventional step of removing the residual polymer using a solvent. This solvent polymer removal step is conventional to the structure resulting from the photoresist ashing taught in Mautz.